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UNITED STATES DEPARTMENT OF AGRICULTURE
Statistical Reporting Service

U. S. DEPT. OF AGRICULTURE
NATIONAL AGRICULTURAL STATISTICS SERVICE

FALLOUT FACILITIES AND FUELS ON FARMS
IN 24 CENTRAL AND SOUTHERN STATES

JUN 28 1963

CURRENT SERIAL RECORDS

INTRODUCTION

At the direction of Secretary of Agriculture Orville L. Freeman, the Statistical Reporting Service of the U. S. Department of Agriculture collected this civil defense information as a supplemental part of its annual December 1 interview survey of farmers. The Economic Research Service participated in the planning phase and the Agricultural Stabilization and Conservation Service financed the survey.

The survey included personal interviews with a probability sample of about 3,000 farm operators in the 24 States of the North Central, South Atlantic and South Central regions. These States had 2.9 million farm operator households, 78 percent of the U. S. total, and also had almost 12 million milk cows, slightly more than 60 percent of the U. S. milk cow herd. The individual States are listed by regions in Tables 1-6.

The wording of the survey questions is shown in Exhibit A. Specific situations, such as numbers and kinds of fallout facilities, fuel storage capacity, or stocks of fuel, are as of December 1, 1962. Annual data, however, such as quantities of fuels used, are for the year 1962.

FALLOUT FACILITIES FOR PEOPLE

Nearly 60 percent of the farm-operator families in the 24 Central and Southern States have facilities of a type that provide some fallout protection. The most common facility available was a basement or cellar under the house, which was reported by 45 percent of the families. Storm cellars not under the house ranked second--available to 14 percent of the families. Five percent of the families had more than one type of facility providing fallout protection, but only one percent of the families had specially designed fallout shelters built or being built.

Availability of facilities providing protection of any type for farm families varied sharply by regions, as shown in Table 1. About 85 percent of farm-operator families in the North Central States reported protection of some type, while fewer than one-third of those living in the South Atlantic and South Central States had any underground or specially designed fallout facilities.

FALLOUT PROTECTION FOR MILK COWS

The survey revealed that enclosed structures offering some protection against fallout were available for 74 percent of the milk cows on farms in the 24-State area. Of these structures, 89 percent held hay supplies in parts of the building not ordinarily occupied by milk cows.

Availability of shelter for milk cows varied sharply by regions, as shown in Table 2. Shelter was available for about one-third of the milk cows in the four South Atlantic States, compared with roughly 90 percent of the milk cows in the North Central States and 50 percent in the South Central States. Most of the facilities providing fallout protection for milk cows in each area contained a supply of hay.

FARM FUEL USE

In the 24 Central and Southern States 86 percent of the farm-operator families used gasoline on their farms. LP Gas was used by 48 percent for either household or production use; and diesel fuel, fuel oil or kerosene was used by 40 percent.

Gasoline use was rather uniformly high in all regions, as shown in Table 3, ranging from 76 percent in the East South Central States to 95 percent in the North Central States. LP Gas usage, on the other hand, varied markedly by regions; four-fifths of the families in the West South Central States used LP Gas compared with one-fourth in the South Atlantic States. Diesel fuel, fuel oil and kerosene were used by fewer than one-sixth of the farm families in the South Central States compared with 47 percent in the East North Central States and 57 percent in the West North Central and the South Atlantic States.

QUANTITIES OF FUELS

In the 24-State area an average of 1,371 gallons of gasoline per farm was used on the farms that used any gasoline. By regions, the average gasoline usage was greatest in the West North Central States, with nearly 1,900 gallons per farm, and least in the East South Central States with slightly over 1,000 gallons used.

LP Gas usage averaged 968 gallons per farm using any LP Gas and ranged from 664 gallons per farm in the East North Central States to nearly 1,300 gallons in the West South Central States.

Diesel fuel, fuel oil and kerosene usage was 1,070 gallons per farm. Usage varied considerably by regions, with the South Central States averaging just over 100 gallons on farms that used any of these three fuels, while the North Central and South Atlantic States averaged above 1,000 gallons.

STORAGE CAPACITY

In the 24-State area 70 percent of all farms had storage available for gasoline, 47 percent had storage for LP Gas, and 39 percent had storage for diesel fuel, fuel oil or kerosene. On farms with gasoline storage, the storage capacity averaged 300 gallons per farm as shown in Table 4; storage for diesel fuel, fuel oil and kerosene averaged 345 gallons; and storage for LP Gas on farms with LP Gas storage averaged 339 gallons per farm.

Considering the farms in the 24-State area that use and store the various fuels, storage capacity averaged just over one-sixth of annual use for gasoline and about one-third of annual use for LP Gas and for diesel fuel, fuel oil and kerosene. Storage capacity as a percent of annual fuel use was quite uniform by regions for each fuel, as shown in Table 6.

Storage per farm with storage was fairly uniform for gasoline and LP Gas, by regions. Diesel fuel, fuel oil or kerosene storage per farm was sharply less in the South Central area than in other regions.

FUEL STOCKS

Farms with gasoline stocks on hand held an average of 129 gallons per farm, as shown in Table 5; farms with diesel fuel, fuel oil or kerosene averaged 175 gallons; and farms with any LP Gas stocks averaged 174 gallons. In the 24 States, 58 percent of all farms had stocks of gasoline, 46 percent had LP Gas stocks, and 37 percent had stocks of diesel fuel, fuel oil or kerosene.

Stocks of gasoline on farms were 36 percent of storage capacity, 50 percent for LP Gas, and 48 percent for diesel fuel, fuel oil or kerosene.

Table 1.--FALLOUT PROTECTION FOR FARM OPERATOR FAMILIES

PERCENTAGE OF HOUSEHOLDS REPORTING SPECIFIED FACILITIES AS OF DECEMBER 1, 1962, BY REGIONS

REGIONS	Percent Tight Basement or Cellar Under House	Percent Storm Cellar not Under House	Percent Specially Designed Fall- out Shelter Already Built or Being Built	Percent Other Place Underground Specified Facility	Percent More than One Type of These Specified Facilities
Ohio, Ind., Ill., Mich., Wisc.	79	5	1	3	4
EAST NORTH CENTRAL Minn., Iowa, Mo., N. Dak., S. Dak., Nebr., Kans.	79	5	1	3	4
WEST NORTH CENTRAL Va., N. C., S. C., Ga.	71	23	*	4	12
SOUTH ATLANTIC (4) Ky., Tenn., Ala., Miss.	29	3	*	5	3
EAST SOUTH CENTRAL Ark., La., Okla., Tex.	18	16	1	2	2
WEST SOUTH CENTRAL	3	24	1	4	2
24 STATES	45	14	1	3	5

* Less than 0.5 percent

Table 2.--FALLOUT SHELTERS AND ASSOCIATED HAY SUPPLIES

FOR MILK COWS, AS OF DECEMBER 1, 1962, BY REGIONS

REGIONS	:Total Number:Percentage of Milk Cows for:Percentage of Milk Cow Shelters : of Milk : which Fallout Shelters are: Containing a Supply : Cows 1/ : Available : of Hay			
	<u>Thousands</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
Ohio, Ind., Ill., Mich., Wisc.				
EAST NORTH CENTRAL	4,351	89		96
Minn., Iowa, Mo., N. Dak., S. Dak., Nebr., Kans.				
WEST NORTH CENTRAL	3,803	88		87
Va., N. C., S. C., Ga.				
SOUTH ATLANTIC (4)	878	34		84
Ky., Tenn., Ala., Miss.				
EAST SOUTH CENTRAL	1,517	54		88
Ark., La., Okla., Tex.				
WEST SOUTH CENTRAL	1,188	47		86
24 STATES	11,737	74		89

1/ Official USDA Estimates for December 1962. Excludes heifers not yet fresh.

Table 3.--FUEL USED

ON FARMS IN 1962, BY REGIONS

REGIONS	Fuel Used in 1962		Percentage of all	
	Gallons	Per Farm Using--	Farms Using--	
		: Diesel Fuel, :	: Diesel Fuel, :	
		: Gasoline : Fuel Oil or : L. P. Gas : Gasoline : Fuel Oil or : L. P. Gas		
		: Kerosene : :	: Kerosene : :	
	<u>Gallons</u>	<u>Gallons</u>	<u>Percent</u>	<u>Percent</u>
Ohio, Ind., Ill. Mich., Wisc.	1,313	1,006	664	95
EAST NORTH CENTRAL	1,313	1,006	664	95
Minn., Iowa, Mo., N. Dak., S. Dak., Nebr., Kans.	1,899	1,082	820	95
WEST NORTH CENTRAL	1,899	1,082	820	95
Va., N. C., S. C., Ga.	1,122	1,126	1,067	78
SOUTH ATLANTIC (4)	1,122	1,126	1,067	78
Ky., Tenn., Ala. Miss.	1,038	81	1,000	76
EAST SOUTH CENTRAL	1,038	81	1,000	76
Ark., La., Okla., Tex.	1,102	142	1,299	84
WEST SOUTH CENTRAL	1,102	142	1,299	84
24 STATES	1,371	1,070	968	86
				40
				48

Table 4.--FUEL STORAGE CAPACITY

ON FARMS IN 1962, BY REGIONS

REGIONS	Storage Capacity Per Farm		Percentage of all Farms			
	Having Storage for--		With Storage Capacity for--			
	: Diesel Fuel, : : Gasoline : Fuel Oil, or : L. P. Gas : Diesel Fuel, : : : Kerosene : : Gasoline : Fuel Oil, or : L. P. Gas		: Diesel Fuel, : : : Kerosene : : Gasoline : Fuel Oil, or : L. P. Gas			
	Gallons	Gallons	Gallons	Percent	Percent	Percent
Ohio, Ind., Ill., Mich., Wisc.	283	284	294	86	47	38
<u>EAST NORTH CENTRAL</u>						
Minn., Iowa, Mo., N. Dak., S. Dak., Nebr., Kans.	356	345	319	90	57	59
<u>WEST NORTH CENTRAL</u>						
Va., N. C., S. C., Ga.	288	408	351	51	55	25
<u>SOUTH ATLANTIC (4)</u>						
Ky., Tenn., Ala., Miss.	231	31	335	54	15	34
<u>EAST SOUTH CENTRAL</u>						
Ark., La., Okla., Tex.	284	43	389	56	11	79
<u>WEST SOUTH CENTRAL</u>						
24 STATES	300	345	339	70	39	47

Table 5.--DECEMBER 1, 1962 FUEL STOCKS ON FARMS

BY REGIONS

REGIONS	Fuel Stocks				Percentage of all Farms with			
	Per Farm Having Stocks of--		:		:		December 1, 1962 Stocks of--	
	Gallons	Gallons	Gallons	Percent	Gallons	Percent	Gallons	Percent
Ohio, Ind., Ill., Mich., Wisc.								
EAST NORTH CENTRAL	113	188	137	84	44	38		
Minn., Iowa, Mo., N. Dak., S. Dak., Nebr., Kans.								
WEST NORTH CENTRAL	167	170	176	80	55	58		
Va., N. C., S. C., Ga.								
SOUTH ATLANTIC (4)	138	168	108	30	51	23		
Ky., Tenn., Ala., Miss.								
EAST SOUTH CENTRAL	64	15	187	34	12	33		
Ark., La., Okla., Tex.								
WEST SOUTH CENTRAL	114	23	212	44	11	78		
24 STATES	129	175	174	58	37	46		

Table 6.--FARM FUEL STORAGE CAPACITY AS RELATED TO ANNUAL USE IN 1962
AND
DECEMBER 1, 1962 FARM FUEL STOCKS AS RELATED TO STORAGE CAPACITY, BY REGIONS

REGIONS	Storage Capacity as a Percent of Annual Use		December 1, 1962 Stocks on Hand : as Percentage of Storage Capacity	
	Percent	Percent	Percent	Percent
			Diesel Fuel, : Gasoline : Fuel Oil, or : L. P. Gas : Kerosene :	Diesel Fuel, : Fuel Oil, or : L. P. Gas : Kerosene :
Ohio, Ind., Ill., Mich., Wisc.	19	28	44	61
EAST NORTH CENTRAL				46
Minn., Iowa, Mo., N. Dak., S. Dak., Nebr., Kans.	18	31	39	42
WEST NORTH CENTRAL				54
Va., N. C., S. C., Ga.	17	35	32	38
SOUTH ATLANTIC (4)				28
Ky., Tenn., Ala., Miss.	16	37	33	17
EAST SOUTH CENTRAL				53
Ark., La., Okla., Tex.	17	28	30	31
WEST SOUTH CENTRAL				54
24 STATES	18	32	35	36
				48
				50

UNITED STATES DEPARTMENT OF AGRICULTURE
STATISTICAL REPORTING SERVICE
WASHINGTON, D. C.

BUDGET BUREAU NO. 40-R2820.7
APPROVAL EXPIRES 12/31/62
ITEM COUNT - 10

DEFENSE SUPPLEMENT -- DECEMBER 1, 1962 ENUMERATIVE SURVEY

Starting Time.._____a.m.
p.m.

CODE
: : :
: STATE : :
: : :
: DISTRICT : :
: : :
: DECEMBER TRACT NO.: :
: : :

"The last few questions concern farm fuel supplies and shelters on your place. The Department of Agriculture needs this information for Defense planning."

Ask Items 2 to 5 for each type of fuel checked in Item 1.

1. Which of these fuels do you use for your house or for farming, including fuel used in tractors, trucks, auto mobiles and farm equipment?	2. In the last 12 months about how much did you use for all your needs?	3. About how much of this was for home heating and cooking?	4. About how much do you have on the place now?	5. How much could you keep here if all your tanks and drums were filled up completely?
(CHECK)				
Gasoline ☐	_____gallons:	_____gallons:	_____gallons:	_____gallons
Diesel Fuel, Fuel Oil, or Kerosene ☐	_____gallons:	_____gallons:	_____gallons:	_____gallons
L P Gas ☐	_____gallons: OR _____pounds:	_____gallons: OR _____pounds:	_____gallons: OR _____pounds:	_____gallons: OR _____pounds:

6. How many people are living in your household, including infants?.....Number _____

7. In case of an emergency--when they might need protection from fallout--is there any place they can go--that is do you have:

	YES	NO
a. A tight basement or cellar under your house?.....(Check) ☐	☐	☐
b. A storm cellar not under your house?.....(Check) ☐	☐	☐
c. An inside or outside specially designed fallout shelter already built or being built?.....(Check) ☐	☐	☐
d. Any other place, underground, big enough to take care of the people living in your household?.....(Check) ☐	☐	☐

Ask Item 8 if operator has any milk cows.

8. In case of a fallout emergency, do you have any barns or sheds on the place which are completely enclosed, that is, four walls and a roof, where you could put some or all of your milk cows?

If YES (), Ask Item 9.

If NO (), CONCLUDE INTERVIEW.

9. How many of your milk cows could you get into these buildings at the same time?.....Number _____

10. Do you have a supply of hay in these buildings?.....(Check)....YES ☐ NO ☐

Ending Time.._____a.m.
p.m.

Enumerator _____

